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12. PERSONAL AUTHOR(S)  William P. Weber  13a. TYPE OF REPORT								
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17. COSATI CODES 18. SUBJECT TERMS ( FIELD GROUP SUB-GROUP			condide on reven	e ii necessary an	u wendry i	ay alock rigilioer)		
The necessary Components for a preparative gel permeation chromatography system were purchased. The system was assembled and is operating properly.  DTIC SELECTE DEC 21 1989  20. DISTRIBUTION/AVAILABILITY OF ABSTRACT UNCLASSIFIED/UNLIMITED SAME AS RPT. DTIC USERS  121. ABSTRACT SECURITY CLASSIFICATION UNCLASSIFIED  222. NAME OF RESPONSIBLE INDIVIDUAL  222. TELEPHONE (Include Area Code) 22c. OFFICE SYMBOL								
22s. NAME OF RESPONSIBLE INDIVIDUAL Dr Fred L. Hedberg				22b. TELEPHONE (202) 767-4			FICE SYMBOL DSR/NC	
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## **FINAL REPORT**

Title: Preparative Gel Permeation Chromatography

AFGGR-TR. 89-1708

Period Covered: November 15, 1988 to November 14, 1989 Grant Number: AFOSR 89-0160

Principal Investigator: Professor William P. Weber
Department of Chemistry and
Loker Hydrocarbon Research Instittue
University of Southern California
Los Angeles, CA 90089-1661

## **Equipment Purchased:**

All items as described in the original proposal, "Preparative Gel Permeation Chromatography," (see Appendix I) were purchased from Waters Millipore. All equipment has been received and is operating in an excellent manner.

## REVISED BUDGET

				UNIT PRICE	TOTAL
	LIQUID CHROMATOGRAPHY INSTRUMENTATION				
1.	Tertiary Gradient System consisting of: (3) Model 510 HPLC Solvent Delivery Syste (1) Model 680 Automated Gradient Controll (1) Reference Valve Kit This includes Education Discount (17%)			<b>\$16,979.</b> 00	\$16,979.00
2.	Model 484 Tunable Absorbance Detector	(CAT.	#80222)	\$ 6,700.00	
	with Autozero Capability Less Educational Discount (17%)			1,139.00 \$ 5,561.00	\$ 5,561.00
3.		(CAT.	#96200)	\$ 3,580.00	
	(Cost: \$1790.00 each) Less Educational Discount (36%)			- 1,290.00 \$ 2,290.00	\$ 2,290.00
4.	FOXY Fraction Collector with Interface	(CAT.	#07440)	\$ 3,040.00	\$ 3,040.00
5.	Model 820 Full Control Maxima System consisting of:  NEC APC IV Computer with 20 MB Hard Disk Drive Black & White Monitor NEC 660 R/W Dot Matrix Printer T063 and IEEE Interface Board I-200 SIM with Pump Control Board Microsoft Mouse Maxima Full Control Multi-System Software with Manual Less Special Sales Discount (5%)	(CAT.	#19588)	\$12,000.00 - 600.00	
				\$11,400.00	\$11,400.00
6.	I-200 Interface (SIM with 2 ch A/D) Less Special Sales Discount (5%)	(CAT.	#88245)	\$ 2,500.00 - 125.00 \$ 2,375.00	\$ 2,375.00
7.	Maxima GPC Software Less Special Sales Discount (5%)	(CAT.	#194 - 1,	\$ 1,500.00 - 75.00 \$ 1,425.00	\$ 1,425.00
8.	Styragel 500A Column (20mm x 122cm)	(CAT.	#40969)	\$ 2,800.00	\$ 2,800.00
9.	Styragel 10-3A Column (20mm x 122cm)	(CAT.	#40970)	\$ 2,800.00	\$ 2,800.00
10.	Styragel 10-4A Column (20mm x 122cm)	(CAT.	<b>#</b> 40972)	\$ 2,800.00	\$ 2,800.00
11.	Styragel 10-5A Column (20mm x 122cm)	(CAT.	#40974)	\$ 2,800.00	\$ 2,800.00
	Less discount when you purchase \$3,000 worth supplies with above system. (See Items 8-11		D	-750.00	- 750.00

	•		UNIT PRICE	TOTAL	
12.	Model 401 Refractive Index Detector Less Educational Discount valid until 12/2	(CAT. #48503) 3/88 (20%)	\$ 4,300.00 - 860.00 \$ 3,440.00	\$ 3,440.00	
13.	Phenyl Column (3.9mm x 15cm)	(CAT. #10636)	\$ 370.00	\$ 370.00	
14.	Silica Column (3.9mm x 15cm)	(CAT. #10025)	\$ 370.00	\$ 370.00	
		TOTAL		\$57,700.00	
	UNIVERSITY CONTRIBUTION				
1.	Model 484 UV Visible Detector Less Demonstrator Discount 90 Day Warranty / Subject to Availability	(CAT. #98582)	\$ 6,100.00 - 1,105.00 \$ 4,995.00	\$ 4,995.00	
2.	Model 170 Preparative Sample Loader Less Special Sales Discount (5%)	(CAT. #31510)	\$ 4,995.00 · _ 249.75		
	Model 401 Differential Refractometer with IEEE Capability and External	(CAT. #70390)	\$ 4,745.25	\$ 4,745.25	
	Temperature Control		\$ 3,440.00	\$ 3,440.00	
		SUB-TOTAL		\$13,180.25	
	California Sales Tax (6.5%)				
		Shipping		363.03	
		TOTAL	\$14,400.00		